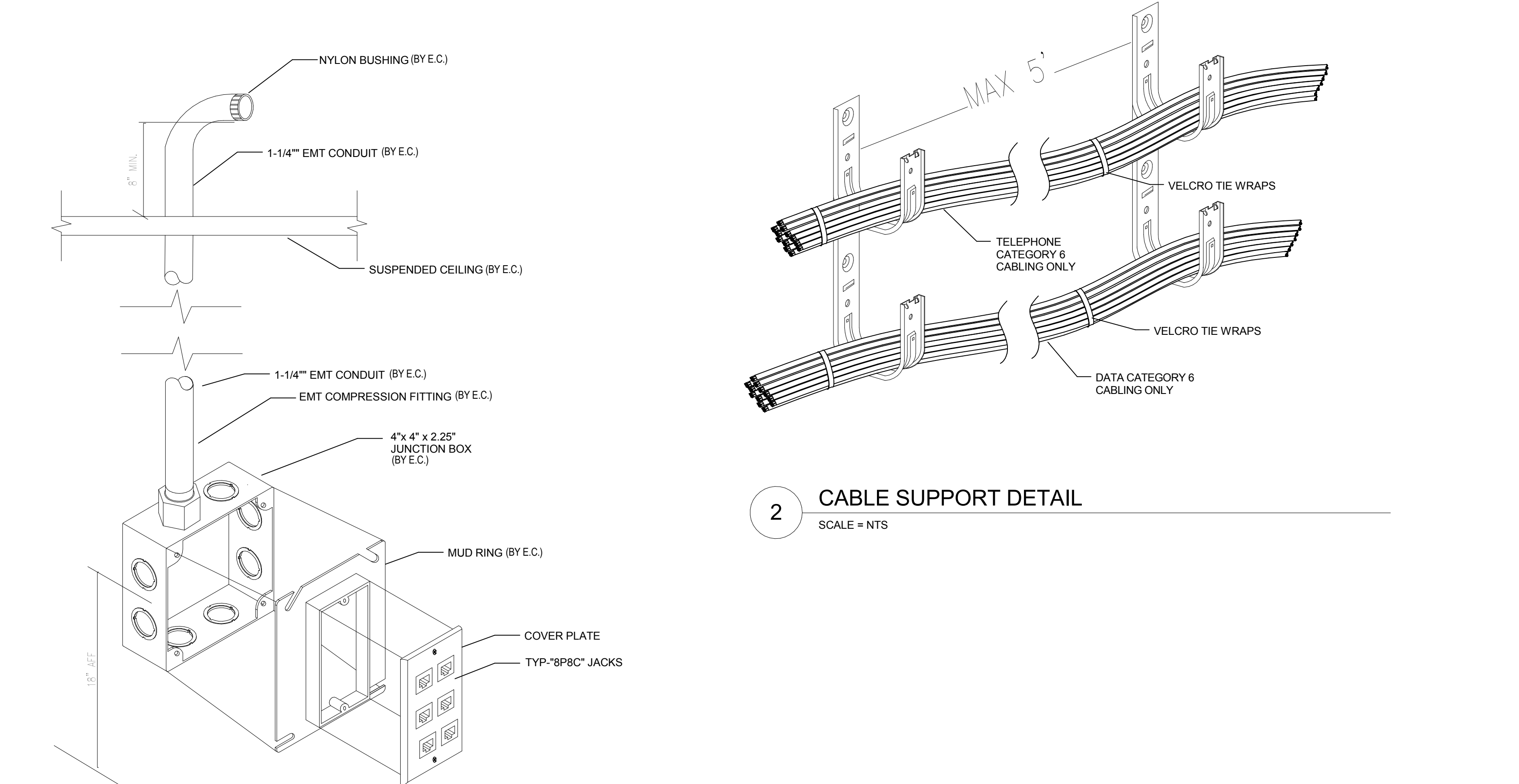
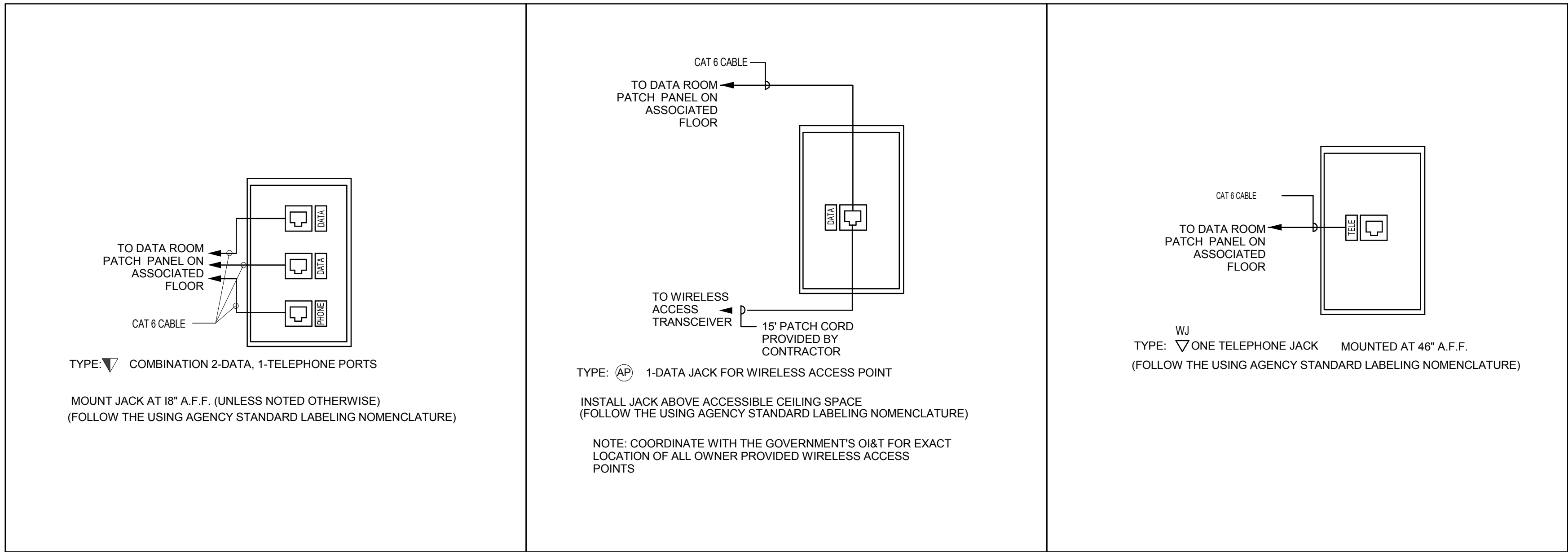
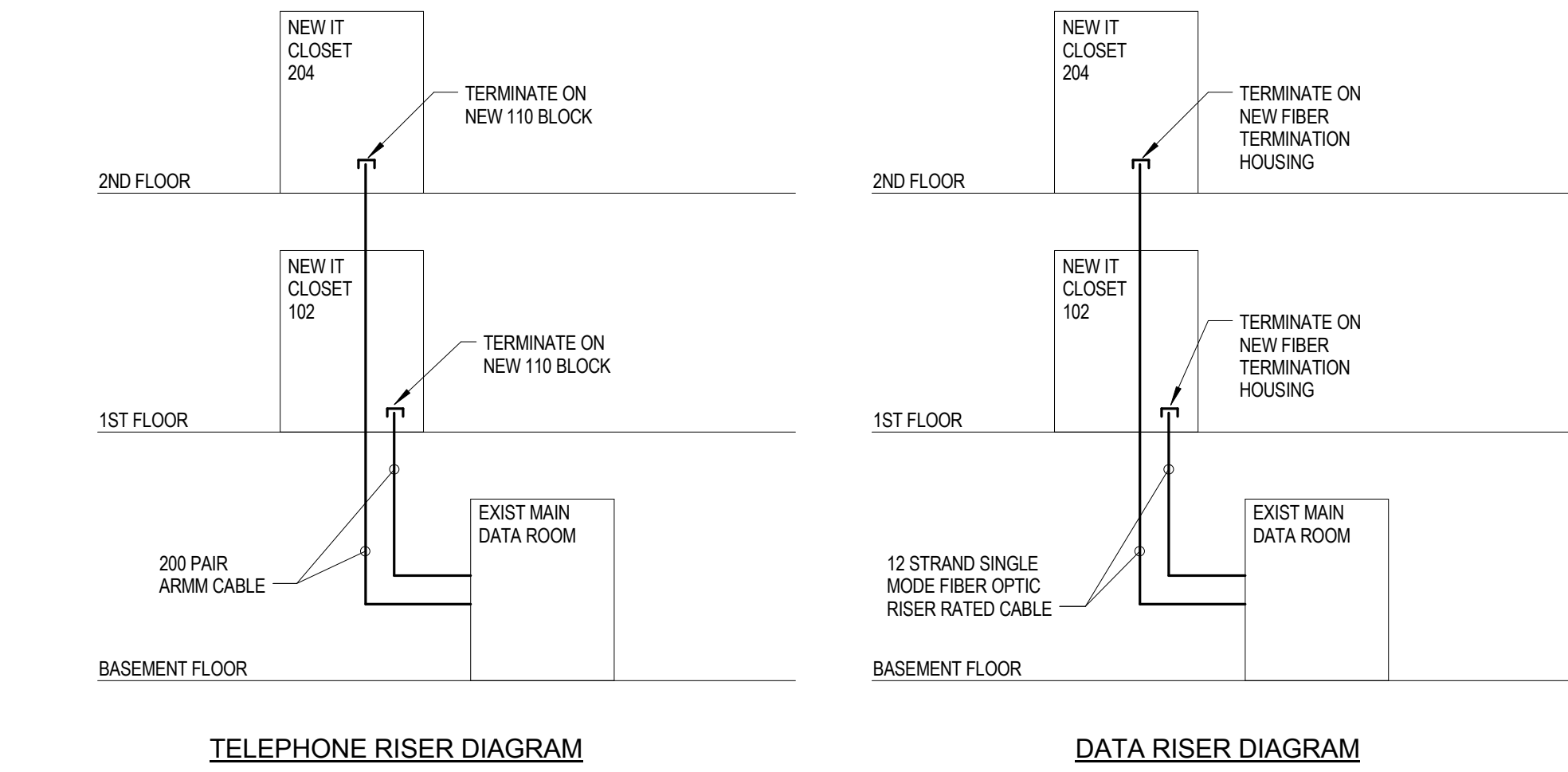


three inches = one foot
one and one half inch = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

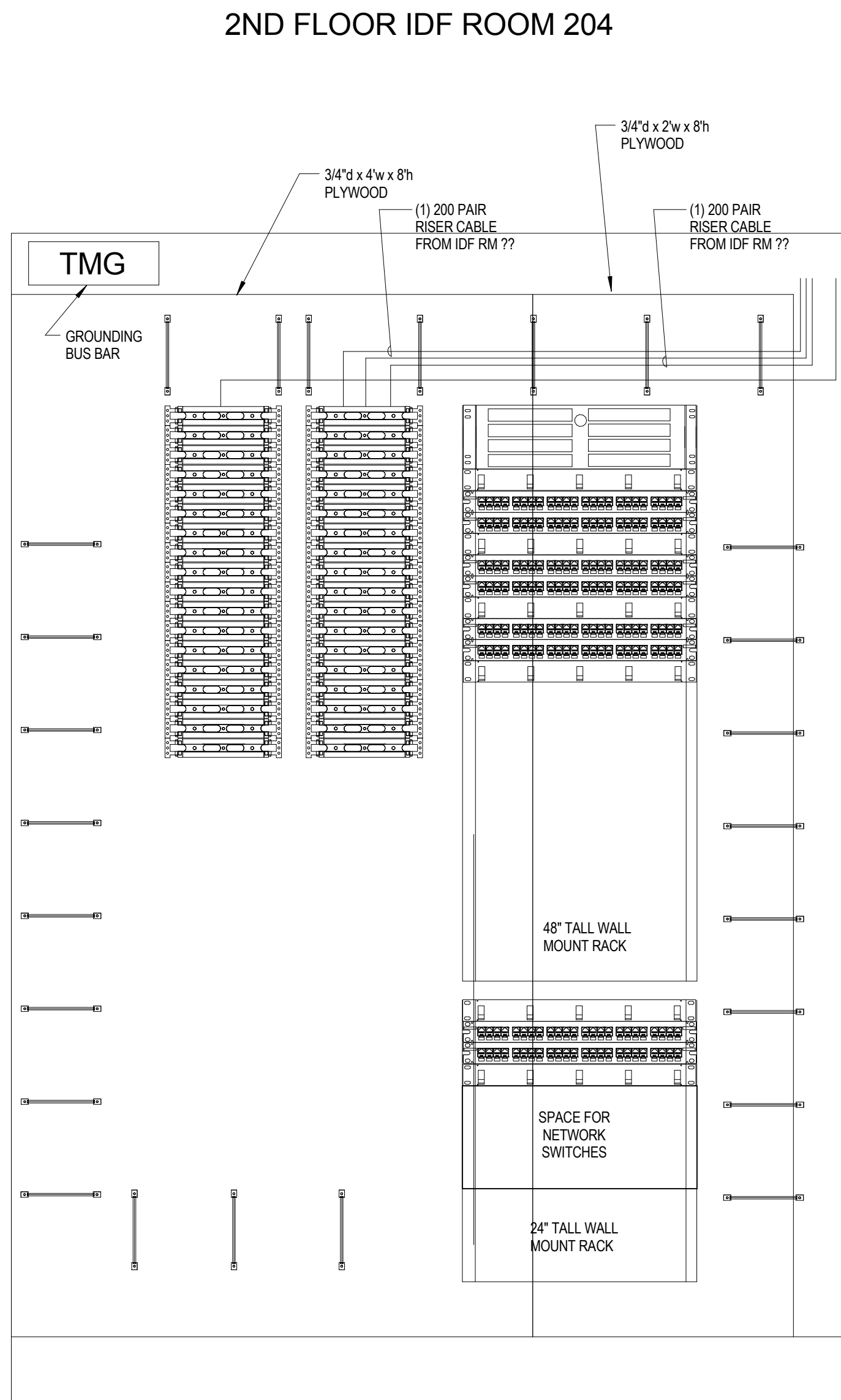
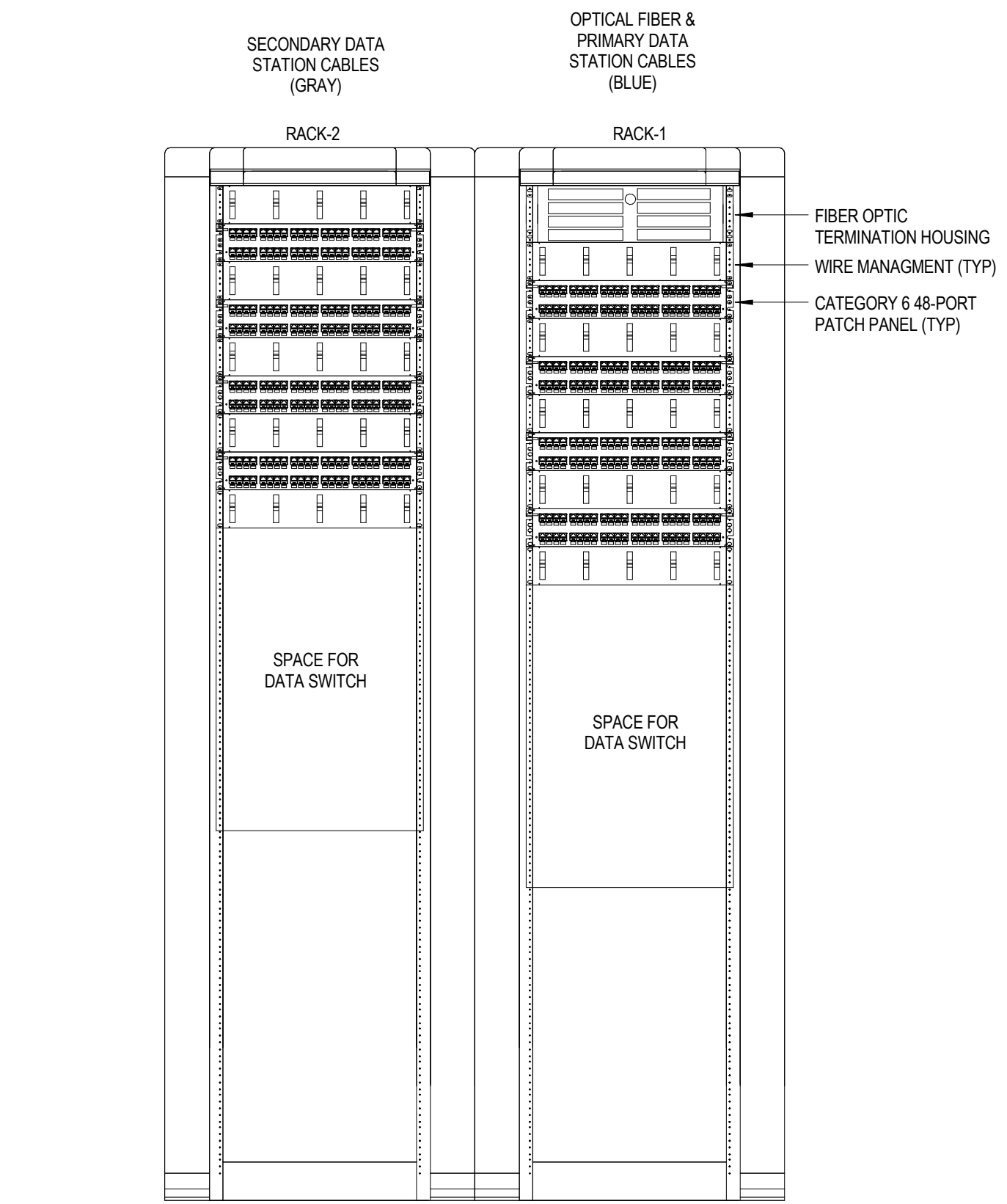


1 ROUGH-IN DETAIL
SCALE = NTS

2 CABLE SUPPORT DETAIL
SCALE = NTS




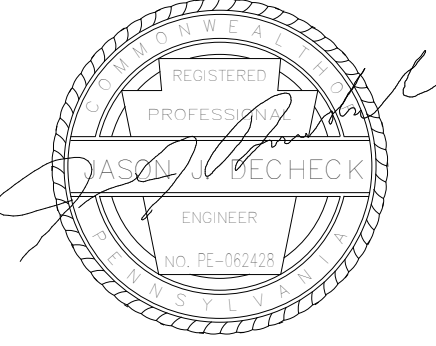
4 TELECOMMUNICATION RISER DIAGRAMS
1/8" = 1'-0"



3 Data Rack Details
1/8" = 1'-0"

GENERAL NOTES:

- THE ELEVATION DETAILS ARE DIAGRAMMATIC ONLY AND HAVE BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF ALL EQUIPMENT CABINETS. THE CONTRACTOR SHALL PROVIDE EQUIPMENT CABINETS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL BE CONFIGURED TO SUPPORT ALL EQUIPMENT, COMPONENTS AND CABLING NECESSARY TO MEET THE PERFORMANCE REQUIREMENTS OF ALL SYSTEMS SPECIFIED. THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL POWER, GROUNDING, SYSTEM COMPONENTS, EQUIPMENT AND ALL APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATING SYSTEMS IN ACCORDANCE WITH ALL PROJECT REQUIREMENTS.
- COORDINATE ALL EQUIPMENT CONFIGURATIONS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS AND THE INSTALLATION OF ALL SYSTEMS AND SYSTEM COMPONENTS. ALL SHOP DRAWINGS SHALL DETAIL SPACE CONDITIONS IN ORDER TO ACCOMMODATE EXISTING CONDITIONS. ALL EQUIPMENT LOCATIONS ARE SUBJECT TO FINAL REVIEW BY THE DESIGN PROFESSIONAL.
- PROVIDE IDENTIFICATION OF ALL EQUIPMENT CABINETS, RACKS, CONTROL PANELS, SUB-CONTROL PANELS, REMOTE RELAY CABINETS AND SECURITY EQUIPMENT PANELS, SYSTEM INTERFACE CABINETS, AND SIMILAR EQUIPMENT WITH 1-1/2 INCH WHITE LETTERING. ENGRAVED LAMINATED PLASTIC SIGNS SHALL BE USED FOR IDENTIFICATION AND SECURELY FASTENED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.
- WORK SHALL BE NEAT IN APPEARANCE, FREE OF ROUGH EDGES, SCRATCHES, BLEMISHES, CRACKS AND EXPOSED GAPS. ALL EQUIPMENT SHALL BE SECURED TO THE MOUNTING SURFACE, AND FASTENED WITH HARDWARE APPROVED BY THE MANUFACTURER AND CAPABLE OF SUPPORTING THE RATED LOAD. ALL CABLES WITHIN ENCLOSURES SHALL BE NEATLY ROUTED AND TIE WRAPPED AT 6 INCHES ON CENTER. ALL WIRE SPLICES SHALL BE TERMINATED ON TERMINAL STRIPS. SPLICES UTILIZING WIRE NUTS SHALL NOT BE ACCEPTABLE.
- ALL WIRING SHALL TERMINATE ON FIXED TERMINAL STRIPS, PUNCH BLOCKS OR PATCH PANELS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. NO SPLICES SHALL BE PERMITTED IN UNDERGROUND PULL BOXES AND NON-ACCESSIBLE JUNCTION BOXES. ALL JUNCTION BOXES CONTAINING ANY SYSTEM SPLICES SHALL BE UNIQUELY IDENTIFIED.
- PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NEC REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS.
- ALL CONTROL EQUIPMENT MUST HAVE TRANSIENT PROTECTION TO COMPLY WITH UL864 REQUIREMENTS WHERE ANY CIRCUITS LEAVE THE BUILDING. ADDITIONAL TRANSIENT PROTECTION MUST BE PROVIDED FOR EACH CIRCUIT. DEVICES MUST BE UL LISTED UNDER STANDARD #4978 (ISOLATED LOOP PROTECTORS). ALL EQUIPMENT CABINETS SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC, IEEE AND MANUFACTURERS REQUIREMENTS.
- ALL PENETRATIONS OF WALLS AND FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURERS DETAILED INSTALLATION PROCEDURES.
- ALL CONDUITS/RACEWAYS SHALL BE INSTALLED IN A MANNER THAT PREVENTS TAMPERING OR REMOVAL WHEN INSTALLED IN AREAS EXPOSED TO THE GENERAL POPULATION. PROVIDE TAMPER-RESISTANT INSTALLATION UTILIZING TORX WITH PEG SECURITY FASTENING DEVICES FOR ALL CONDUITS/RACEWAYS, EQUIPMENT, DEVICES AND APPURTENANCES IN ALL AREAS ACCESSIBLE TO THE GENERAL POPULATION AND/OR AREAS SUBJECT TO TAMPERING OR VANDALISM.
- REFER TO ALL RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

CONSULTANTS:		ARCHITECTS/ENGINEERS:		Drawing Title TELECOMMUNICATION DETAILS	Project Title BUILDING 9 - SECOND FLOOR RENOVATION	Project Number 542-13-105	Office of Construction and Facilities Management Department of Veterans Affairs	
				Approved: Project Director	Location: 1400 Blackhorse Hill Road Coatesville, PA 19320	Building Number 9		
Revisions:		Date		Date 05 / 12 / 14	Checked JJD	Drawn JMJ	Drawing Number ET600	Dwg. 125 of 125